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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,644	10/29/2003	David S. Benco	LUTZ 2 00248	7771

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FAY SHARPE/LUCENT  
1100 SUPERIOR AVE  
SEVENTH FLOOR  
CLEVELAND, OH 44114

EXAMINER

GELIN, JEAN ALLAND

ART UNIT	PAPER NUMBER
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2617

MAIL DATE	DELIVERY MODE
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08/14/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

### Application No.

10/696,644

### Applicant(s)

BENCO ET AL.

### Examiner

Jean A. Gelin

### Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 29 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 4, 5, 11, 13, 16, 17, and 24-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Bhogal et al. (US 2003/0013441).

Regarding claim 1, 12, and 18, Bhogal teaches a method for automatically providing credit to an account of a communications services subscriber when communications services of the subscriber are interrupted (i.e., method to conveniently obtain credit for dropped calls or interruption in wireless network [0005]), the method comprising: detecting an interruption in communication services of the subscriber (i.e., determining dropped calls [0006]); generating a communications interrupted message describing the detected interruption in communication services of the subscriber (i.e., to store the characteristic of dropped calls [0007]; transmitting the communications interrupted message (i.e., dropped calls characteristic is transmitted to provider [0007]; generating a credit account message based on the communications interruption message (i.e., based on characteristic of dropped calls [0026]-[0029]); transmitting the credit account message to a billing center (i.e., service provider for reimbursement

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procedure [0026]-[0029]; and applying a credit to the account of the subscriber based on the credit account message (i.e., dropped calls characteristic is transmitted to provider and dropped calls are evaluated and appropriate reimbursement made by the provider [0028]-[0029]).

Regarding claim 4, Bhogal teaches noting a lack of response from the user equipment of the subscriber ([0020]); noting a time of the lack of response ([0020]); and, declaring the communication services of the subscriber interrupted when a difference between the noted time and a current time exceeds a predetermined value ([0020]-[0021]).

Regarding claim 5, Bhogal teaches detecting the interruption in the communication services of the subscriber at a cell site serving the user equipment of the subscriber ([0020]-[0021]).

Regarding claim 11, Bhogal teaches determining a credit type preference of the subscriber; and applying a credit to the account of the subscriber based on the determined credit type preference of the subscriber ([0005], [0026], and [0028]).

Regarding claim 13, Bhogal teaches a subscriber database including a record indicated a credit type preference of the subscriber wherein interruption event processor is operative to read the record indicating the credit type preference of the subscriber and direct an application of a credit according to the read preference ([0029]).

Regarding claim 16, Bhogal teaches the interruption event processor is operative to calculate a credit amount based on information received in the description of the

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dropped call event (evaluating dropped calls for appropriate reimbursement ([0026], [0028]-[0029])).

Regarding claim 17, Bhogal teaches the interruption event processor is further operative to calculate a credit amount based on information received in the description of the dropped call event and information received from a subscriber record associated with the subscriber ([0026]-[0029]).

Regarding claim 24, Bhogal teaches means for noting a signal strength from the user equipment of the subscriber ([0026]-[0029]); means for comparing the signal strength to a threshold signal strength ([0026]-[0029]); and, means for declaring the communication services of the subscriber interrupted when the signal strength falls below the threshold signal strength ([0026]-[0029]).

Regarding claim 25, Bhogal teaches means for noting a signal strength from the user equipment of the subscriber ([0026]-[0029]); means for comparing the signal strength to a threshold signal strength ([0026]-[0029]); and, means for declaring the communication services of the subscriber interrupted when the signal strength falls below the threshold signal strength for a predetermined period of time ([0026]-[0029]).

Regarding claim 26, Bhogal teaches means for noting a signal strength from the user equipment of the subscriber ([0026]-[0029]); means for comparing the signal strength to a threshold signal strength ([0026]-[0029]); and, means for declaring the communication services of the subscriber interrupted when the signal strength falls below the threshold signal strength with at least a predetermined frequency ([0026]-[0029]).

Regarding claim 27, Bhogal teaches means for noting a signal strength from the user equipment of the subscriber ([0026]-[0029]); means for comparing the signal strength to a threshold signal strength ([0026]-[0029]); and, means for declaring the communication services of the subscriber interrupted when the signal strength falls below the threshold signal strength with a predetermined number of times ([0026]-[0029]).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2, 6, 8, 14, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bhogal et al. in view of Mullins et al. (US 5,677,945).

Regarding claim 2, Bhogal teaches all the limitations above except generating a subscriber notification message describing the credit; and, transmitting the subscriber notification message to user equipment of the subscriber.

However, the preceding limitation is known in the art of communications. Mullins teaches sending messages to subscribers on card balances which approach a threshold amount, the system announces to the subscriber when a threshold amount has been exceeded (col. 2, lines 9-39). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to implement the technique of

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Mullins within the system of Bhogal in order to announce caller the remaining amount of money available to him and improve the performance of telecommunications systems.

Regarding claim 8, Bhogal teaches all the limitations above except generating a call data record applying credit to the account of the subscriber.

However, the preceding limitation is known in the art of communications. Mullins teaches providing announcement to a caller when a credit balance approaches to a threshold amount corresponding to modifying the amount of money on credit card ([0013]-[0014]). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to implement the technique of Mullins within the system of Bhogal in order to properly handle credit and debit transaction on a telecommunications network in a way which reduces billing communication, yet which enables accurate monitoring of call balance.

Regarding claims 9, 10, they are rejected for reasons set forth in the rejection of claim 8 above.

5. Claims 3, 7, 15, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bhogal et al. in view of Mullins further in view of Satapathy (US 2004/0203607).

Regarding claims 3, 7, 15, and 20, Bhogal in view of Mullins teaches all the limitations above except storing the generated subscriber notification until communications services are re-established with the user equipment of the subscriber.

However, the preceding limitation is known in the art of communications. Satapathy teaches the mobile station determines that it has experienced a dropped call; in response, the mobile station allows a user to continue communicating, such as by recording the user's speech; the mobile station plays out the recorded speech, such as upon reestablishment of the call ([0009] and [0032]). Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to implement the technique of Satapathy within the system of Bhogal and Mullins in order to allow participants in dropped calls to continue communicating, and play the recorded communications upon re-establishment of the call.

### ***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

King	US 2004/0077331	04/22/2004
Fleming	US 5,953,710	09/14/1999

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean A. Gelin whose telephone number is (571) 272-7842. The examiner can normally be reached on 9:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on (571) 272-7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

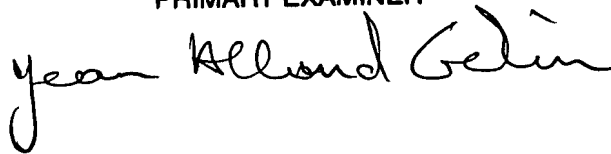


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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JEAN GELIN  
PRIMARY EXAMINER

JGelin  
August 9, 2007

A handwritten signature in cursive script that reads "Jean Gelin". The signature is written in black ink and is positioned below the printed name and title.